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DATE MAILED: 07/13/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

61642 7590 07/13/2009 LEONARD T. GUZMAN

IBM CORP., LAW DEPT., C4TA/J2B 650 HARRY ROAD SAN JOSE, CA 95120-6099

EXAMINER				
HO, BINH VAN				
ART UNIT	PAPER NUMBER			
2163				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,743	02/27/2004	Stefan Bengt Edlund	ARC920030019US1	8420

TITLE OF INVENTION: CLIENT-SERVER COMPUTING SYSTEM CAPABLE OF VALIDATING CACHED DATA BASED ON DATA TRANSFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/789,743 TITLE OF INVENTION TRANSFORMATION	02/27/2004 DN: CLIENT-SERVER	COMPUT	ING SYST	Stefan Bengt Edlund EM CAPABLE OF VA	LIDATING CAC		C920030019US1 DATA BASED ON	8420 V DATA
APPLN, TYPE	SMALL ENTITY	ISSUE F	EE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		510	\$300	\$0		\$1810	10/13/2009
EXAM	INER	ART	UNIT	CLASS-SUBCLASS				
HO, BIN		21		707-001000				
I. Change of correspondence address or indication of 'Tee Address' C7 CFR 1.863. Change of correspondence address (or Change of Correspondence Address Sen PIOSB/B1/2) altached. Tee Address' indication for 'Tee Address' Indication form PTOSB/B1/2 altached. The Address' indication for 'Tee Address' Indication form PTOSB/B1/3 revo.3-02 correspondence Address' Indication form Number is required. Assignment AnaMe AND RESIDENCE DATA TO BE PRINTED O			spondence form Customer	For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or a 2 registered patent atto listed, no name will be EME_DATEONE (print or the part of th	3 registered paten vely, e firm (having as a gent) and the name meys or agents. If a printed.	t attorr	era 2	
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	/ DEPT., C4TA/J2B	ART UNIT	PAPER NUMBER	
650 HARRY ROAD SAN JOSE, CA 95120-6099			2163 DATE MAII ED: 07/13/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 384 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 384 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/789 743 EDLUND ET AL. Notice of Allowability Examiner Art Unit BINH V HO 2163 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 06/15/2009. The allowed claim(s) is/are 16. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some*} \) c) \(\subseteq \text{None} \) of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. __ 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

of Biological Material	9. Other
	/don wong/ Supervisory Patent Examiner, Art Unit 2163
U.S. Dalack of Table 2005	
U.S. Patent and Trademark Office	

Attachment(s)

1. Notice of References Cited (PTO-892)

Pacer No./Mail Date

Notice of Draftperson's Patent Drawing Review (PTO-946).

4. ☐ Examiner's Comment Regarding Requirement for Deposit

3. Information Disclosure Statements (PTO/SB/08),

5. Notice of Informal Patent Application 6 Interview Summery (PTO-413).

7. X Examiner's Amendment/Comment

8. X Examiner's Statement of Reasons for Allowance

Paper No./Mail Date

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DETAILED ACTION

Examiner's Amendment

 An examiner's amendment to the record appears below. Should the changes and /or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.3.12. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

 The following claim has been amended upon agreement by applicant during a telephone conversation with Mr. Leonard T. Guzman on 06/24/2009.

Amendments to claim 16:

Claim 16 (Currently Amended):

In a client-sever computing system having a cache and storing eXtensible Markup Language (XML) data as data objects, a method for determining invalid cached objects comprising:

transforming XML data into a format suitable for a client application based on a set of transformation rules:

determining dependencies between cached objects and XML data related to the cached objects;

wherein the dependencies are maintained in a table of dependencies;
wherein the step of determining the affected objects comprises the steps
of: identifying the nodes associated with data updates; identifying the

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transformation rules related to the identified nodes; determining a set of relevant style sheets using the table of dependencies, the relevant style sheets including the identified transformation rules; and identifying the cached objects that have been transformed by the relevant style sheets;

monitoring updates to the related XML data; and

determining the cached objects that are affected by changes to the related XML data based on the dependencies,

wherein data is represented as a tree structure having a plurality of nodes and

the cached objects that are affected by the data changes are determined using the tree structure.

The Examiner's amendment has been made in order to place the application in a condition for allowance.

Reasons for Allowance

3. The following is an examiner's statement of reason for allowance:

Claim 16 is considered allowable since the prior made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. James (U.S. 2003/0217169) or Challenger (U.S. 6,026,413), taken individually or in combination, do not teach the claimed invention having in a client-sever computing system having a cache and storing eXtensible Markup Language (XML) data as data objects, a method for determining invalid cached

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objects comprising determining dependencies between cached objects and XML data related to the cached objects; wherein the dependencies are maintained in a table of dependencies; wherein the step of determining the affected objects comprises the steps of: identifying the nodes associated with data updates; identifying the transformation rules related to the identified nodes; determining a set of relevant style sheets using the table of dependencies, the relevant style sheets including the identified transformation rules; and identifying the cached objects that have been transformed by the relevant style sheets; determining the cached objects that are affected by changes to the related XML data based on the dependencies_with a combination of all recitations as defined in claim 16.

Therefore, claim 16 is presently allowed.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance." Application/Control Number: 10/789,743

Art Unit: 2163

Inquiry

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh V. Ho whose telephone number is 571 272 8583. The examiner can normally be reached on M-F from 8:00AM -4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on 571 272 1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Binh V Ho Examiner Art Unit 2163

/don wong/ Supervisory Patent Examiner, Art Unit 2163